

## Capacity Building on Greenhouse Gas Inventory and Training Needs for ASEAN Countries

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### **Abstract**

Thailand Greenhouse Gas Management Organization (Public Organization) or TGO, which is the responsible agency in Thailand for GHG mitigation activities, recognized the crucial issue on climate change and initiated the establishment of Climate Change International Technical and Training Center or CITC which is aimed to be a “one-stop technical training center” and networking platform on mitigation and adaptation for ASEAN countries and other developing countries.

In 2016, CITC together with Sirindhorn International Institute of Technology, Thammasat University developed curriculum and manual on “Greenhouse Gas Inventory for ASEAN countries” This inventory manual is developed in regard to the preliminary analysis of “Need Assessment” results of all ASEAN countries; Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand and Vietnam, from the previous study, which was presented by the Thailand Greenhouse Gas Management Organization (TGO) in 2014, along with the feedback of a questionnaire from ASEAN members, collected by SIIT.

Regarding the results of the survey, more than 85 percent of ASEAN members know and understand the circumstances of their own national GHG inventory. In addition, more than 75 percent of them comprehend the concept of GHG inventory development in relation to the *Revised 1996 IPCC GL* as well as the *2006 IPCC GL*; however, they are still unclear about understand the differences between the two guidelines.

Additionally, this questionnaire assesses knowledge and comprehension about the basic concept to develop a national GHG inventory as well as methodology to estimate the quantity of GHG emissions from the experts in individual sector. This result includes 64 percent from the waste sector, 57 percent from the energy sector and 29 percent from IPPU and AFOLU sectors.

The results indicate that ASEAN members understand the basic concept of GHG inventory development as well as the methodology to estimate GHG emission, resulting in a high fraction of understanding about the meaning of activity data and emission factors as well as processes of uncertainty and Quality assurance/ Quality control. Parenthetically, explanation of the verification process is an important issue for improvement of the GHG inventory.

In 2017, CITC together with Ministry of Natural Resource and Environment co-organized the “Training on Greenhouse Gas Inventory Management and Application of the 2006 IPCC Guidelines for ASEAN Countries” during 21-23 June 2017 at Thailand. There were 40 representatives from 8 ASEAN countries include Cambodia, Indonesia, Philippines, Lao PDR, Malaysia, Singapore, Thailand and Vietnam joined the training.

### **References**

Thailand Greenhouse Gas Management Organization (Public Organization), Executive summary, Greenhouse Gas Inventory Curriculum Development Project, 2006.